

# The Null Pattern



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# Overview



**Classification: Behavioral**

**Provides a default object to clients**

**Avoids null references**

**Client need not test for a valid object**

**Creational patterns can benefit**

**Let's see an example or two**



# Demo



**Motivating example**



**Use the Null pattern where tests for valid references are required.**



# Demo



Using the Null pattern



## Summary



**Provides a default object**

**The default object need do nothing**

**Eliminate tests for None**

**Clients can just use the object returned**

**Not limited to classes**

**Useful for functions, iterators, generators**

**Next time you see a test for None...**

**...think of using the Null Pattern instead!**

